



5 March 2006



## CADETS LEARN ROCKET SCIENCE, COMPETE FOR PRIZES

Reported by C/TSGT Casey Johnson, Lewis and Clark Composite Squadron

HELENA, MT – The Lewis and Clark Composite Squadron has entered a team in the Team America Rocketry Challenge, the world's largest model rocketry contest. The contest requires that the team design, build, and test a model rocket that will carry a large hen's egg for a forty-five second flight duration while reaching an altitude of 800 feet. The egg must survive the flight in order to be deemed successful. The team is very excited about the opportunity to participate in the contest and hope that they will be one of the top 100 teams selected to travel to the National Finals event in Virginia, on May 20, 2006.

Approximately 10,000 team members participated in the contest last year, which was sponsored by the Aerospace Industries Association and the National Association of Rocketry. This year, the Defense Department and NASA are sponsoring the forth annual Challenge.

The project has the teams building rockets in a manner not too far off from professionals. The Challenge promotes teamwork, delegation of tasks, group decisions, and patience. Team Captain, Captain Gil Johnson, says the contest is an excellent opportunity for cadets to learn hands-on lessons in aerodynamics and physics. "Participants apply concepts like computing trajectory and eliminating drag to their models." Johnson states. "There's a deep satisfaction in knowing the things you have learned are helping launch your project rockets into the sky. Also working with the team is 1st Lt. Dennis Coulson – Safety Officer and Andrew Horton as the team's technical mentor.

Team Lewis and Clark Composite Squadron have already completed 8 rockets and a test firing phase. Two scratch built test rockets will be built and finished by April 2nd, 2006 with their qualification endorsed by the National Association of Rocketry. If chosen for the finals, Team Lewis and Clark Composite Squadron will have the chance to compete with other teams from all over the country for \$60,000 in prizes. The team is very excited and are meeting twice a week to continue their rocket development. If anyone is interested in contributing donations to Team Lewis and Clark Composite Squadron, they can contact Captain Gil Johnson at (406)235-4545.

Cadet Team Members include:

C/TSGT Spencer Gilchrist – Payload specialist and Team Manager

C/TSGT Casey Johnson – News release officer, motor retention specialist, and propulsion and ignition specialist.

C/Basic Kathryn Gregori – Recovery Specialist

C/Basic Thomas Lund – Rocket Builder

C/Basic Kelsey Johnson



A Team Lewis and Clark Composite Squadron rocket launch.

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## 17 PARTICIPATE IN WINTER SURVIVAL SCHOOL

Reported by Major Robert Hoffman



1st Lt. Shelly Hoffman of Lewis and Clark Composite Squadron is mobilized and ready for transport during Winter Survival School Training.

HELENA-- On Feb 18, Lewis and Clark Composite Squadron hosted the Montana Wing Winter Survival School. 17 personnel from Lewis and Clark Composite Squadron, Helena, and Big Sky Composite Squadron, Bozeman, participated. The course emphasized Ground Team Training for Basic Communications, GTM3, GTM2, GTM1, and Ground Team Leader. Additionally, squadron personnel taught BCUT, Ground Team Leader Paperwork, Tactical Leadership Dynamics, Ground Team Leader Tasks, Ground Team Member Tasks, Operational Leadership Exercises, Tactical Communications, Basic Survival Skills, Identifying Natural Hazards, and Ground Team Equipment Packing and Refitting. This event was Part I of continuing Ground Team education. Part II, the Field Training Exercise, is scheduled for March 25-26 in Helena.

## DISCOUNTED AVIATION CHARTS AVAILABLE TO CAP MEMBERS

John Salvador at National Headquarters tells us that members may obtain discounted sectionals and terminal charts from Vrotate ([www.vrotate.com](http://www.vrotate.com)). The sectionals normally go for \$8.00 and the terminals for 4.25. With the discount that is available to CAP members, the prices are \$6.25 and 3.65 respectively. All the members have to do is identify themselves as CAP members and give their squadron number and the discount will apply. Using a credit card to order, you can receive the new charts about 4 to 6 days before the local dealers. It is the best of two worlds--you will always have the latest charts available, and because that is one of our regulations, it will keep you legal.

## VOLUNTEER OBSERVERS NEEDED TO OBSERVE STARS, MEASURE LOCAL LIGHT POLLUTION

by Maj. Steve Heffel

PAO, Beartooth Composite Squadron

BILLINGS, MT-- Globe at Night is seeking volunteer observers to help measure local light pollution levels which interfere with astronomical observations. Participants in this volunteer science program will observe and record stars visible from their locality and then report their observations to the Globe at Night website. The observations must be conducted during the week of March 22-29. All information needed to conduct successful observations can be reviewed on the Globe at Night website.

Participation in this volunteer science program is educational and the participants will be making a concrete contribution to the science of astronomy. The information collected by Globe at Night will be utilized in making a global light pollution map. The Globe at Night website address is: <http://www.globe.gov/GaN/index.html>





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## HIGHLIGHTS OF THE 2006 WINTER NATIONAL BOARD

3-4 March, 2006, Washington, DC

Reported by Wing Commander Col. Jan Van Hoven

Here were the results on some of the agenda items addressed. Details on passed items will be forthcoming.

- ♦ **Fifty Year Members**--Remove the word "continuous" from CAPR 39-2, p 8-3: passed
- ♦ **Corporate officer appointment letters**: withdrawn
- ♦ **National Commander's Unit Citation Award**--Provides an additional award for outstanding units: Passed
- ♦ **Enhanced Grade for Retired Military Senior NCOs**--Passed with amendments
- ♦ **Senior Recruiting Ribbon**--Bring requirements in line with cadet requirements: died
- ♦ **Unit Staffing**--Allow smaller squadrons to leave nonessential positions unfilled to relieve overwork: Sent to development committee
- ♦ **Adopt Dark Blue Nomex flight suit as CAP flight suit**, Phase out ultra-marine CAP flight suit: Passed
- ♦ **Authorize Wear of Cooper Black Leather Jacket** with CAP flight suit or other CAP uniforms as wing and region commander may approve: Passed
- ♦ **Elimination of Shoulder Patches** (Wing, Squadron) on Air Force Blue Uniforms: Passed
- ♦ **Changes to Corporate Uniform**--Dark Blue Epaulets, dark blue slacks/skirts, blue tie and nameplate: Passed
- ♦ **Revision of CAPF 60**: Back to committee
- ♦ **Establish a Past Commander's Association**: Passed with amendments
- ♦ **Complete a National Cadet Competition Manual**: Passed
- ♦ **Refinement of Cadet Protection Program**: Tabled, referred to committees
- ♦ **Restore Aircraft Maintenance Sorties to Air Force Assigned Mission Status**: Passed
- ♦ **Draft of CAPR-16, Cadet Program Management**: Withdrawn for further work

## MONTANA WING CALENDAR

New and Updated Items in RED

Find more information about listed events at [www.mtwg.cap.gov](http://www.mtwg.cap.gov)

### March 1-April 30, 2006

G1000 Training, Various Locations

### March 10-12, 2006

SAR/DR/HLS/CD Training, Location: Missoula

### March 18-19, 2006

Airman Leadership School, Location TBA

### March 25-26, 2006

Ground Team Winter Survival FTX, Helena, MT

### April 28-30, 2006

Montana Wing Conference, Billings, MT

Quarterly Wing Staff Meeting, During Conference, Billings, MT

*Printable Registration Form at [www.mtwg.cap.gov](http://www.mtwg.cap.gov)*

### May 1-June 30, 2006

G1000 Training, Various Locations

### May 5-7, 2006

SAR/DR/HLS/CD Training or Table Top, Laurel, MT

Preparation for Guided Sarex

### May 13-14, 2006

Encampment Staff Academy, TBA

Selection and training of Cadets for encampment staff

### June 9-11, 2006

Montana Guided SAR, Location: Red Lodge

### June 18-24, 2006

Montana Wing Cadet Encampment, **Malmstrom AFB**

### July 1-Aug 31, 2006

G1000 Training, Various Locations

### July 3-10, 2006

National Cadet Week

### July 15, 2006

Quarterly Wing Staff Meeting, Malmstrom AFB, Great Falls, MT

### July 29-30, 2006

SAR/DR/HLS/CD and Wing Picnic, Valier, MT

### August 9-12

**Summer National Boards, Reno, NV**

### August 19-20, 2006

Mountain Fury, Location TBA

### September 23-24, 2006

SAR/DR/HLS/CD, Laurel, MT